Monitoring

Ultrasonic Anemometer

CHRIS-MARINE®

ANEMOMETER

Ultrasonic wind speed and direction measurement.









Key benefits

- High precision and accuracy
- Connected to Chris-Marine SPEAT for EEXI/CII compliance
- Maintenance-free sensor, no moving parts
- Heating for use in cold climates
- Safe, robust and reliable

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ANEMOMETER

Chris-Marine Ultrasonic Anemometer

Compared to the traditional anemometers, the measuring principle of the ultrasonic wind sensor enables inertia-free measurement of wind with high precision and accuracy.

Wind speed and direction

The wind measuring element utilizes four ultrasonic sensors that capture cyclical measurements in all directions.

Measuring unit

The ultrasonic anemometer has no moving parts which greatly increases reliability whilst allowing accurate measurement even in very light winds. The ultrasonic wind sensor is seawater-resistant and designed without moving parts.

Virtual temperature

The ultrasonic sensors determine the virtual temperature based on the physical relationship between the velocity of propagation of sound and the air temperature.

Technical data	
WIND SPEED	
• Measuring range	0-75 m/s
• Accuracy	±2% measured value 5-60 m/s
• Resolution	0.1 m/s (standard)
WIND DIRECTION	
• Range	0-360 degrees
• Accuracy	±2° WS > 1 m/s
• Resolution	0.1°
GENERAL	
• Data output serial	RS422 / RS485
• Data output analogue	0-20mA, 0-10V or 4-20mA, 2-10V
• Operation voltage - sensor	8-60VDC or 12-42 V AC 1.2W typical
• Heating (model dependent)	24 V AC/DC; 250W
• Operating temperature	-50° to +80° C
• Dimensions	Ø 200 x 144 mm
• Protection	IP67
• Weight	2.0 kg
• Housing material	Hard anodized aluminum



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